CARLO GAVAZZI SPACE SpA

RELAZIONE DI RIUNIONE / VISITA
MINUTES OF MEETING / VISIT

N° AMS02-MI-CGS-003

FOGLIO *SHEET* 1 DI OF 5 ANNEX #A

DATA – *DATE*	LOCALITA' – *LOCATION*	COMMESSA – *JOB*	RIF. - *REF.*
23-24/10/07	PISA	2011I	

IMPIANTO *PROJECT*

DESCRIZIONE *DESCRIPTION*: AMS TCS

LOCALITA' *LOCATION*: INFN - PISA

CLIENTE - *CUSTOMER*

ORDINE - CONTRACT

SCOPO RIUNIONE *PURPOSE OF MEETING*

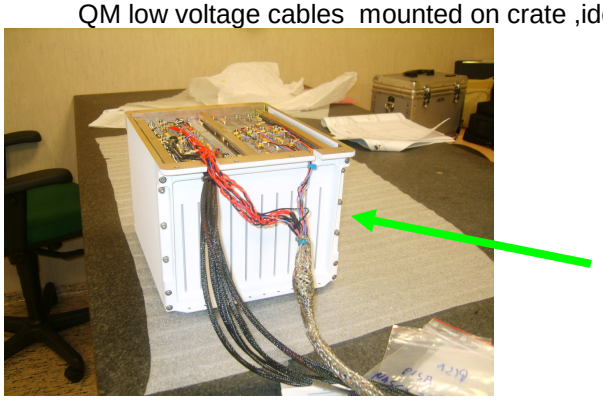
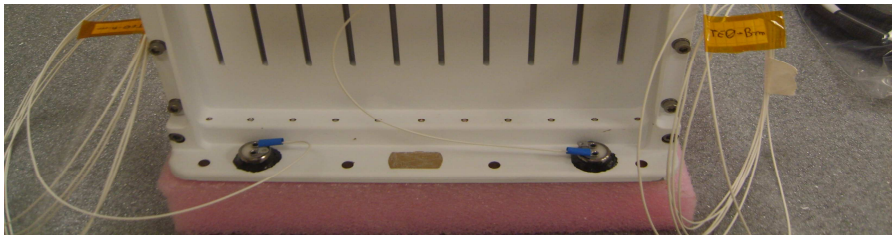
Heaters and thermostats integration on E crate

REDATTO – *WRITTEN BY*: A.Assenza

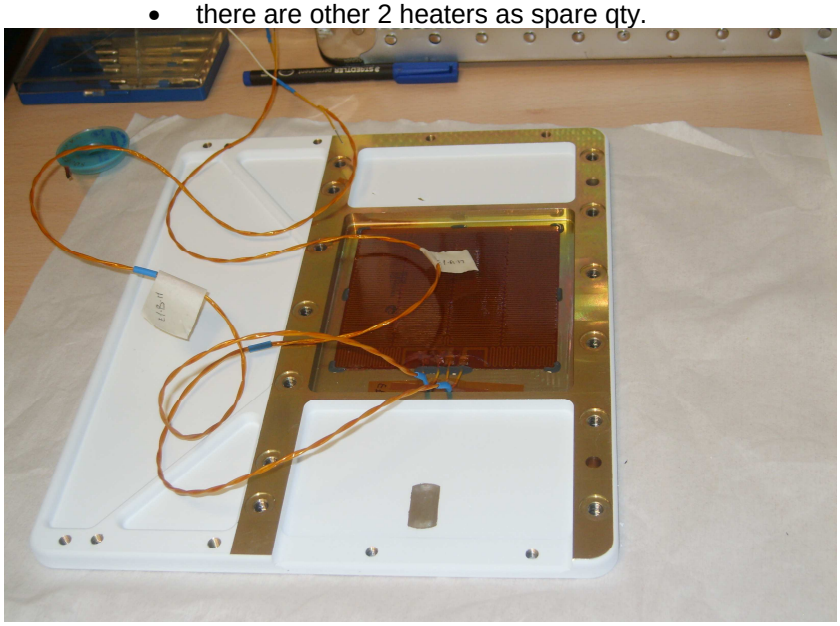
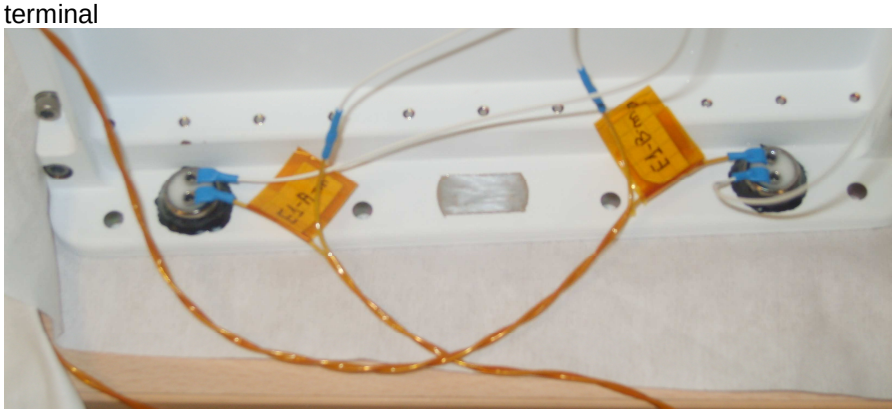
LISTA DI DISTRIBUZIONE *DISTRIBUTION LIST*: M.Molina; C.Vettore; C.Canella; M. Olivier; L.Cremonesi; F.Facchin; G.Borghi; A.Dell'acqua; P.Lorenzi

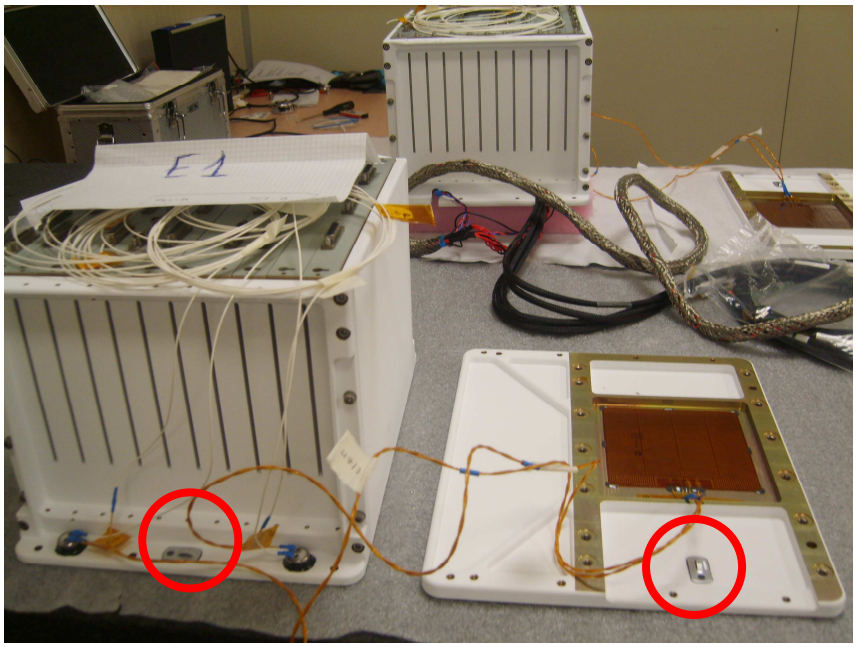
PRESENTI - *ATTENDED BY*

NOMI - *NAMES*	POSIZIONE - *POSITION*
F.Cervelli – INFN Pisa (24.10.07)	
F.Spinella – INFN Pisa	
Antonella Assenza - CGS	
Claudio Canella- CGS	

PUNTI *ITEMS*	ARGOMENTI DISCUSSI – DESCRIPTION OF DISCUSSION	AZIONE A CURA [1] *ACTION BY* [1]
1.	QM low voltage cables mounted on crate ,identified as **E0** , 	23.10.07 INFN
2.	started activity acc. to integration procedure ,annex#A; Glued Thermostats on E crate mainwall Upper mounting feet:  soldered cable awg22 to one terminal of each thermostat : these cables will be connected to dedicated Patch panel mounted on LUSS ; for this reason cable length is more than 2.2mt and it will be fixed later along the path on LUSS	23.10.08 -24.10.07 CGS Integration at CERN

1) INDICARE IL NOMINATIVO RESPONSABILE DELL'AZIONE E DATA DI COMPLETAMENTO
1) ACTUAL PERSON RESPONSIBLE FOR THE ACTION AND COMPLETION DATE SHALL BE SHOWN

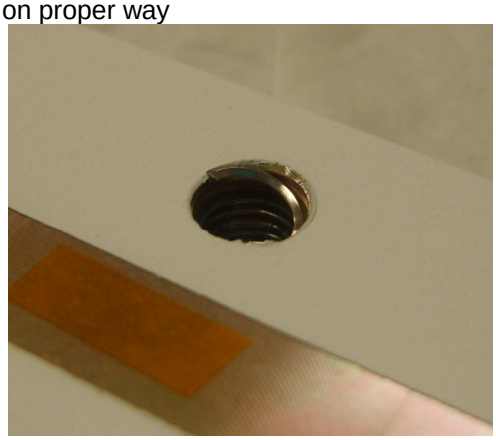
PUNTI ***ITEMS***	**ARGOMENTI DISCUSSI – DESCRIPTION OF DISCUSSION**	**AZIONE A CURA** [1] ***ACTION BY*** [1]
	Glued heaters on E crate support plate (heaters are provided with two twisted pair cables, one for each bus, A and B); • heater RICA R0799 1 on E0 Support Plate • heater RICA R0799 2 on E1 Support Plate • there are other 2 heaters as spare qty.  Heaters were delivered with AWG22 flying leads length 80cm. In one lead of each heater line (E0-A-p and E0-B-p for E0 and E1-A-p and E1-B-p for E1) a junction has been done in order to reach the overall cable length that is now more than 2.2mt . These cables will be fixed later on USS along their path The remaining other 2 leads are soldered on the related Thermostat free terminal 	Integration at CERN *These 2 leads are left with the original length of 80cm and not fixed yet : this to avoid any problem during the dismounting of support plate from related crate when QM Low voltage cables will be replaced by FM ones*

	two metallic cable-ties have been glued on each set (1 on E crate , between the 2 thermostas, and 1 on related support plate, as shown on picture below.  This to provide an interface where to tie the cables bundle in a proper way when needed	
3.	Support plate has not been fixed to dedicated E crate	06.11.07 CGS to provide issue 2 of E crate integration procedure , with all information about this activity (i.e.: fastener type, torque, running torque…) ;
4.	INFN ask for a table of materials that have been used during this activity	CGS to add this table on integration procedure as x annex#A ;

5. Remarks on mechanics :

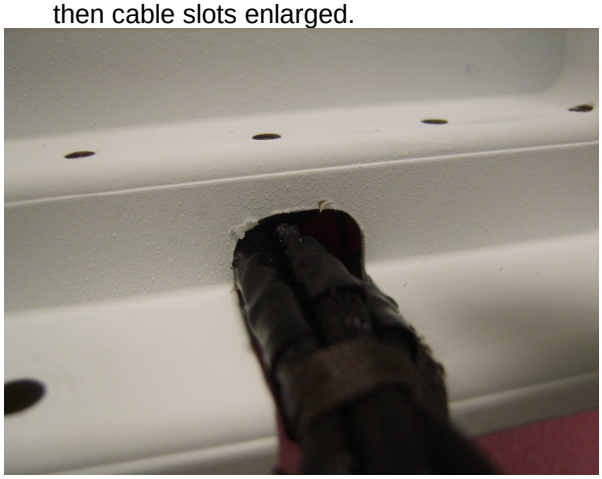
- On both support plates some helicoils were not installed on proper way

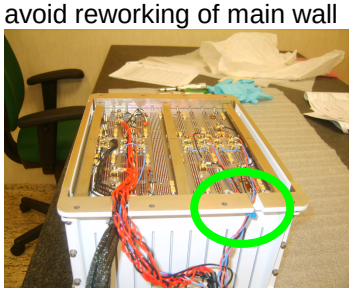
24.10.07
INFN replaced them



- CGS notes that cable bundle on E0 crate can have problem with cable slots dimension on lower wall ; this problem was encontoured also on other AMS crates and then cable slots enlarged.

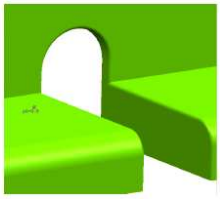
23.10.07
CGS suggest to check the real FM cable bundle dimensions and in case of interference to split the cables in order to use also the second cable slot ; this to avoid reworking of main wall



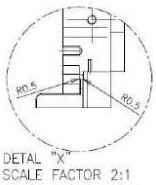


- Slot edges seems to be sharp :

ANNEX#A : CABLE SLOT with blend R=0.5mm



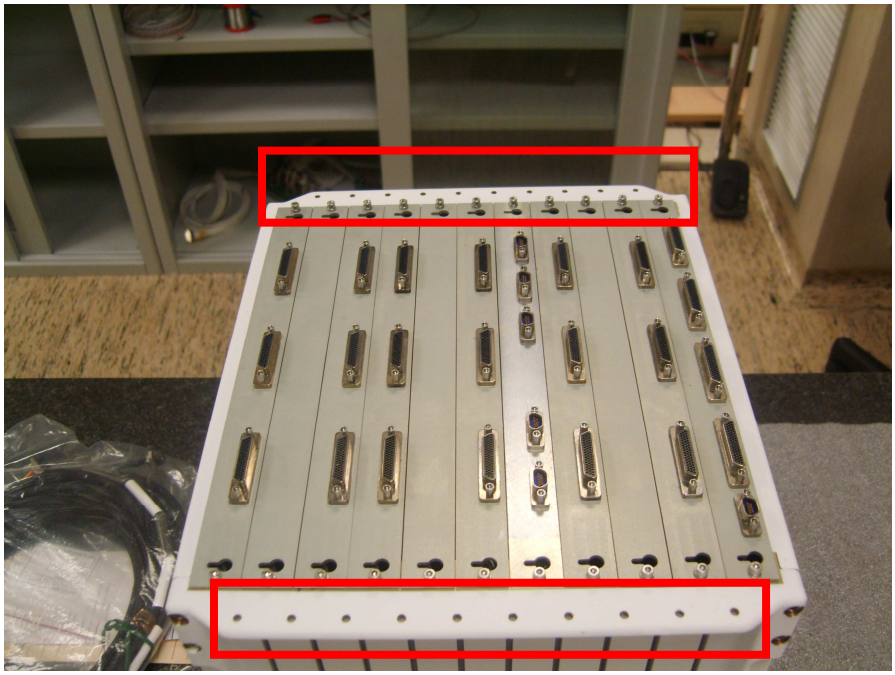
A blend radius R=0.5 is foreseen in all edges for cable slots on crate lower main walls



•Parts already manufactured →NCR
If is not feaseble to round the edges without damage the parts ,the alternative solution is a chamfer 0.5x45°, that can be done by hand (hand tool, sand paper,..)

- Both mainwall Upper and Lower have throu holes on area close to front panels and not holes with helicoils #4-40UNC acc. to related drawings

These holes are the i/f to cable supports



INFN to investigate if these holes will be used for cable support and if they really need the helicoils.